

We claim:

1. A method of increasing the total oil content in a plant  
5 organism or a tissue, organ, part, cell or propagation  
material thereof, comprising
  - a) the transgenic expression of a polypeptide SEQ ID NO: 2  
10 from yeast in said plant organism or in a tissue, organ,  
part, cell or propagation material thereof, and
  - b) the selection of plant organisms in which - in contrast  
15 to or comparison with the starting organism - the total  
oil content in said plant organism or in a tissue, organ,  
part, cell or propagation material thereof is increased.
2. A method as claimed in claim 1, wherein the polypeptide from  
yeast is described by
  - 20 a) a sequence with the SEQ ID NO: 2
  - b) a functional equivalent of a) with an identity of at  
least 60% of a sequence with SEQ ID NO: 2.
- 25 3. A method as claimed in claim 1 or 2, wherein the plant is  
an oil crop.
4. A method as claimed in claim 1 or 2, wherein the total oil  
content in the seed of a plant is increased.  
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5. A transgenic expression cassette comprising, under the  
control of a promoter which is functional in a plant organism  
or a tissue, organ, part or cell thereof, a nucleic acid  
sequence SEQ ID NO: 1.  
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6. A transgenic expression cassette as claimed in claim 5,  
wherein the nucleic acid sequence is described by
  - a) a sequence with the SEQ ID NO: 1  
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  - b) a sequence derived from a sequence with the SEQ ID NO: 1,  
in accordance with the degeneracy of the genetic code
  - c) a sequence which has at least 60% identity with the  
45 sequence with the SEQ ID NO: 1.

Sequ.

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7. A transgenic expression cassette as claimed in claim 5 or 6,  
wherein the promoter is a seed-specific promotor.
8. A transgenic vector comprising an expression cassette as  
5 claimed in any of claims 5 to 7.
9. A transgenic plant organism or tissue, organ, part, cell  
or propagation material thereof, comprising a polypeptide  
as defined in claim 2 or an expression cassette as claimed  
10 in any of claims 5 to 7 or a vector as claimed in claim 8.
10. A transgenic plant organism as claimed in claim 9, wherein  
the plant organism is selected from the group of the oil  
crops consisting of *Borvago officinalis*, *Brassica campestris*,  
15 *Brassica napus*, *Brassica rapa*, *Cannabis sativa*, *Carthamus*  
*tinctorius*, *Cocos nucifera*, *Crambe abyssinica*, *Cuphea*  
species, *Elaeis guinensis*, *Elaeis oleifera*, *Glycine max*,  
*Gossypium hirsutum*, *Gossypium barbadense*, *Gossypium*  
*herbaceum*, *Helianthus annuus*, *Linum usitatissimum*, *Oenothera*  
20 *biennis*, *Olea europaea*, *Oryza sativa*, *Ricinus communis*,  
*Sesamum indicum*, *Triticum species*, *Zea mays*, walnut and  
almond.
11. The use of a transgenic plant organism or tissue, organ,  
25 part, cell or propagation material thereof as claimed in  
claim 9 or 10 for the production of oils, fats, free fatty  
acids or derivatives of the above.

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